

Miami County, KS
 Well: Schmitt I-48
 Lease Owner: R.T. Enterprises

Town Oilfield Service, Inc.
 (913) 294-2125

Commenced Spudding:
 6/7/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-27	Soil-Clay	27
16	Lime	43
3	Shale	46
22	Sand	68
13	Shale	81
5	Lime	86
33	Shale	119
15	Lime	134
11	Shale	145
26	Lime	171
10	Shale	181
17	Lime	198
5	Shale	203
3	Lime	206
2	Shale	208
9	Lime	217
24	Shale	241
14	Sand	255
74	Shale	329
8	Sand	337
28	Shale	365
6	Sandy Lime	371
7	Sand	378
27	Shale	405
8	Lime	413
7	Shale	420
7	Lime	427
12	Shale	439
7	Lime	446
15	Shale	461
3	Lime	464
14	Shale	478
5	Lime	483
18	Shale	501
2	Lime	503
117	Shale	620
4	Sandy Shale	624
11	Sand	635
7	Sandy Shale	642
78	Shale	720-TD

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times 14 \times h$

D equals diameter in feet.

h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004

BPH - barrels per hour

PSI - pounds square inch

TO FIGURE PUMP DRIVES

* D - Diameter of Pump Sheave

* d - Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

*C - Shaft Center Distance

D - $\text{RPM} \times d$ over $\text{SPM} \times R$

d - $\text{SPM} \times R \times D$ over RPM

SPM - $\text{RPM} \times D$ over $R \times d$

R - $\text{RPM} \times D$ over $\text{SPM} \times d$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMPS}$

746 WATTS equal 1 HP

Log Book

Well No.

I-48

Farm

Schmitt

KS

(State)

Miami

(County)

11

(Section)

17

(Township)

22

(Range)

For

R.T. Enterprises

(Well Owner)

Town Oilfield Services, Inc.

1207 N. 1st East

Louisburg, KS 66053

913-710-5400

Schmitt Farm: Miami County
KS State; Well No. I-48

Elevation 952

Commenced Spuding 6-7 20 18

Finished Drilling 6-22 20 18

Driller's Name Wesley Dollar

Driller's Name Ryan Ward

Driller's Name

Tool Dresser's Name

Tool Dresser's Name

Tool Dresser's Name

Contractor's Name TOS

11 17 22

(Section) (Township) (Range)

Distance from S line 1320 ft.

Distance from E line 330 ft.

3 sacks
9 hrs
5 7/8 borehole
2 7/8 casing

CASING AND TUBING RECORD

10" Set _____ 10" Pulled _____

8" Set _____ 8" Pulled _____

7 1/2" Set 20 6 1/4" Pulled _____

4" Set _____ 4" Pulled _____

2" Set _____ 2" Pulled _____

CASING AND TUBING MEASUREMENTS

Feet	In.	Feet	In.	Feet	In.
706.9		Float			
676.3		Borehole			
720 TD				2 7/8	

Thickness of Strata	Formation	Total Depth	Remarks
0-27	soil-clay	27	
16	Lime	43	
3	Shale	46	
22	sand	68	
13	shale	81	grey - no oil
5	Lime	86	
33	shale	119	
15	Lime	134	
11	shale	145	
26	Lime	171	
10	shale	181	
17	Lime	198	
5	shale	203	
3	Lime	206	
2	shale	208	
9	Lime	217	Heithq
24	shale	241	
14	sand	255	water
74	shale	329	
8	sand	337	
28	shale	365	broken - slight show
6	sandy lime	371	odor - no show
7	sand	378	broken - slight show
27	shale	405	
8	Lime	413	
7	shale	420	
7	Lime	427	



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-9676

PO-17103
 FT-10845

TICKET NUMBER 54043
 LOCATION Ottawa, KS
 FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE <u>6/28/18</u>	CUSTOMER # <u>5954</u>	WELL NAME & NUMBER <u>Schnitt # I-48</u>	SECTION <u>SE 11</u>	TOWNSHIP <u>17</u>	RANGE <u>22</u>	COUNTY <u>MI</u>
CUSTOMER <u>L+L Energy c/o Ojewroc Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>120 Shoreline Dr</u>			<u>729</u>	<u>Casker</u>	<u>✓</u>	<u>Safety Meeting</u>
CITY <u>Louisburg</u>	STATE <u>KS</u>	ZIP CODE <u>66053</u>	<u>467</u>	<u>KeiCar</u>	<u>✓</u>	
			<u>503</u>	<u>AlaMad</u>	<u>✓</u>	
			<u>675</u>	<u>KeiDet</u>	<u>✓</u>	

JOB TYPE longstring HOLE SIZE 5 5/8" HOLE DEPTH 720' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 707' DRILL PIPE _____ TUBING baffle - 676' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/ek _____ CEMENT LEFT in CASING 31'
 DISPLACEMENT 3.91 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 200 # Gel followed by 5 bbls fresh water, mixed + pumped 95 sts Pozblend 1A cement w/ 2% gel per st, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 3.91 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MTT, released pressure to set float valve.

[Handwritten signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	25 mi	MILEAGE	178.75	
CE0711	1/2 min	van mileage	330.00	
WE0853	1.5 hrs	80 Ucc	150.00	
		trucks	2158.75	
		-35%	755.56	
		subtotal		1403.19
CC5840	95 sts	Pozblend 1A cement	1282.50	
CC5965	360 #	Gel	108.00	
CP8176	1	2 1/2" rubber plug	45.00	
		materials	1435.50	
		-35%	502.43	
		subtotal		933.07
		8%		74.684
		SALES TAX		74.684
		ESTIMATED TOTAL		2410.91

SCANNED

Revin 3737
 AUTHORIZATION No Co Rep TITLE _____ DATE 6/28/18
 TOTAL 2410.91
 TOTAL 3709.09

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.